

# "EC" DECLARATION OF CONFORMITY

## SIMA, S.A.

Polígono Industrial Juncaril, C/ Albuñol, Parcela 250 C. P. 18220 Albolote, Granada (SPAIN)  
Company responsible for manufacturing and commercialising the below specified machine:

### ELECTRIC MIXER

#### DECLARES:

That the above mentioned machine designed to blend or mix liquid or solid products such as paints and mortars is in conformity with all applicable provisions of the Directive of Machines **(2006/42/CE)** and the national applicable regulations.

The machine is also in conformity with EC applicable provisions:

**2006/95/CE; 2004/108/CE; 2000/14/CE; 2002/44/CE; 2002/95/CE; 2002/96/CE**

The machine is also in conformity with the provisions of the following applicable norms

EN 60745-1:2006;

EN 60745-2-1:2003+A11:2007

#### Details of the authorized person to elaborate the technical file

Eugenio Fernández Martín  
**Technical Department Manager**

SIMA S.A.

Polígono Industrial Juncaril, C/ Albuñol, Parcela 250 - 18220 Albolote, Granada (SPAIN)

Albolote 01.01.2010



Signed:  
Javier García Marina  
**Managing Director**

# INDEX

“EC” DECLARATION OF CONFORMITY ..... 3

1. GENERAL INFORMATION..... 5

2. GENERAL DESCRIPTION OF THE MACHINE..... 5

3. TRANSPORTATION ..... 5

4. SUPPLY CONDITIONS..... 5

5. PICTOGRAMS ..... 6

6. PARTS OF THE MACHINE. .... 6

7. INSTALLATION INSTRUCTIONS. .... 6

8. SAFETY RECOMMENDATIONS ..... 7

9. ELECTRICAL CONNECTION ..... 7

10. MAINTENANCE ..... 7

    10.1 CARBON BRUSHES ..... 8

11. SETTING AND USE..... 8

12. TECHNICAL CHARACTERISTICS..... 9

13. WARRANTY ..... 10

14. SPARE PARTS ..... 10

15. ENVIRONMENT PROTECTION ..... 10

16. DECLARATIONS ON NOISES ..... 10

17. DECLARATIONS ON MECHANICAL VIBRATIONS ..... 10

WARRANTY CERTIFICATE ..... 11

## 1. GENERAL INFORMATION

**WARNING: Please read and understand perfectly the present instruction before using the machine.**

SIMA S.A. thanks you for your trust in our products and for purchasing the ELECTRIC MIXER MIX-PRO 1600.

This manual provides you with the necessary instructions to start, use, maintain and in your case, repair of the present machine. All aspects as far as the safety and health of the users is concerned have been stated. Respecting all instructions and recommendations assures safety and low maintenance. As such, reading this manual carefully is compulsory for any person responsible for the use, maintenance or repair of this machine.

As such, reading this manual carefully is compulsory for any person responsible for the use, maintenance or repair of this machine.

**It is recommended to have always this manual in an easily accessible place where the machine is being used.**

## 2. GENERAL DESCRIPTION OF THE MACHINE

SIMA ELECTRIC MIXER MIX-PRO 1600 models, are designed and constructed to blend or mix liquid or solid products such as paints and mortars.

Any other use can be given to this machine is considered inappropriate and may be dangerous, so is expressly prohibited.

- The mix of materials is performance by a mixing paddle.
- it has two handles for grip.
- It has a safety button to avoid to start the machine by accident
- It has a speed driver to control the speed in each of the two gears.
- It has a 2 gear box selector.
- Induction motor.
- Activation of rotation using a switch.
- Interchangeable paddle mixer.
- The electric equipment complies with EU safety regulations.

## 3. TRANSPORTATION

For safe transportation of the machine, follow these instructions:

When transporting the machine take care that nothing may damage or bend the paddle mixer. In case of damaged or bent it, replace it, otherwise it could generate vibrations.

## 4. SUPPLY CONDITIONS.

When you open the packaging of the machine you will find the following material:

An electric mixer unit.

A paddle mixer.

A flat wrench.

An instruction manual.

## 5. PICTOGRAMS

Pictograms included in the machine entail the following:



**READ INSTRUCTIONS  
MANUAL**



**USE HELMET AND EYE AND  
AUDITIVE PROTECTION**



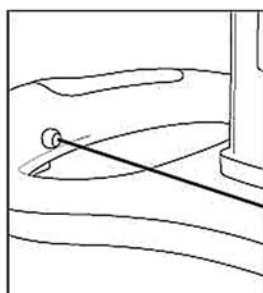
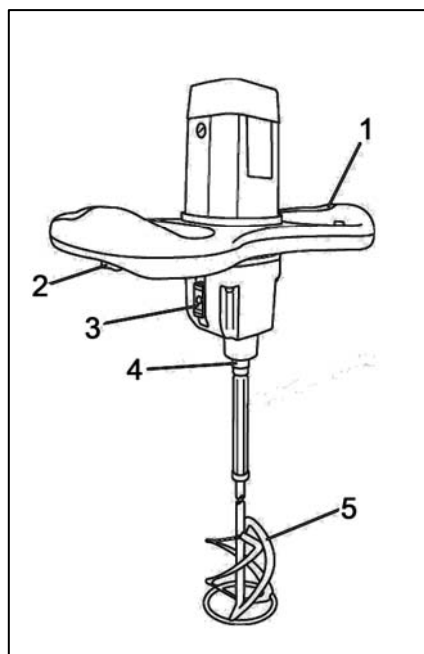
**USE SAFETY GLOVES**



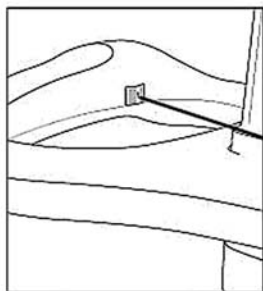
**USE SAFETY BOOTS**

## 6. PARTS OF THE MACHINE.

1. Grip
2. On / off switch
3. 2 gear box selector
4. Axis of rotation of the motor
5. Mixer Paddle



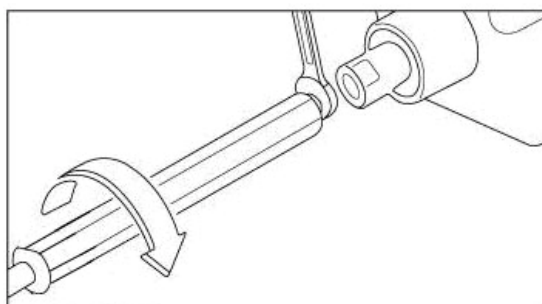
**On / off switch blockage**



**Speed driver**

## 7. INSTALLATION INSTRUCTIONS.

For reasons of volume machine is served with mixer paddle removed. To mount it we will screw the threaded end of the paddle with the output shaft of the motor, then tighten the paddle with a key.



## 8. SAFETY RECOMMENDATIONS

This chapter covers basic safety rules for using the machine. By working with the machine complies with the instructions below:

- Before starting up the machine please read the instructions and make sure safety norms are respected. Learn how to stop the machine in a fast and safe way.
- Start the machine only when you have mounted the safety guards that come with the machine.
- It is recommended to use safety glasses, safety boots, gloves etc. Please always use approved materials.
- Always use Individual Protection Equipment (IPE) in accordance with the type of work you are effectuating.
- Prohibit strangers to access the place of work of the machine.
- Work clothes are not supposed to have loose articles that can cling into movable parts of the machine.
- Electrical wires showing cuts and breaks should be replaced as soon as possible.
- Do not use the machine with wet hands, under the rain or in damp places.
- When you have to move the machine, unplug the electricity cables and block the moving parts of the machine.
- Work with the machine in well-lit.

## 9. ELECTRICAL CONNECTION

Upon receipt of the machine, make sure the network electrical tension is adequate before plugging the machine. The electrical tension is to be found on the voltage indication next to the switch of the machine.

**WARNING: Never plug the machine to electricity, in case the network power tension is not the adequate as the engine would undergo irreparable damages**

**WARNING: Never manipulate power supply cables or any other electrical equipment on the machine before you unplug the machine from electricity**

If you use extension wires to power the machine, make sure they have a minimum cross-section as indicated by the following table

WIRE LENGTH	110/115v	230v
	Wire size /AWG)	Ø Nominal
> (10 feet) o (3 meters)	16	1,0 mm <sup>2</sup>
> (15 feet) o (5 meters)	14	1,25 mm <sup>2</sup>
> (30 feet) o (9 meters)	10	1,5 mm <sup>2</sup>

## 10. MAINTENANCE

To keep the machine always in perfect condition should regularly monitor the following:

- Keep clean the handles of the machine.
- Avoid to damage the mixing paddle to prevent vibration.
- Keep clean and speed selectors and the ON/OFF switch

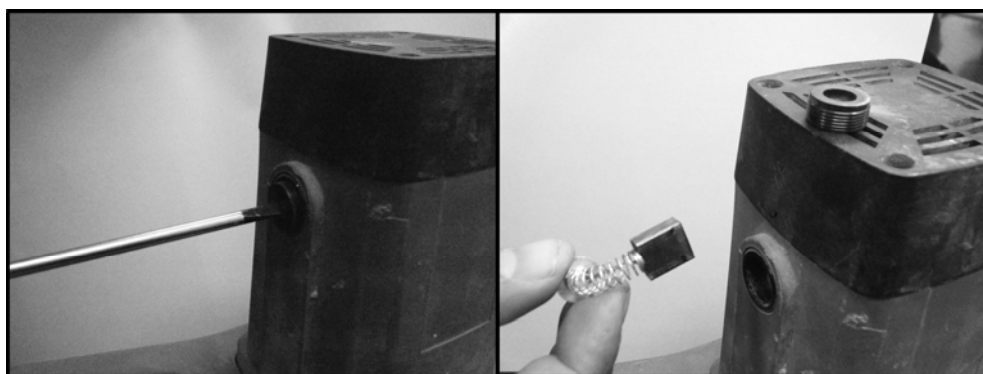
## 10.1 CARBON BRUSHES

Inspect carbon brushes once a month. The normal life of carbon brushes is 200 hours. Proceed to replace if the length is less than 6mm

NOTE: Worn out brushes will result in the loss of power, the engine overheat and damage the housing will be irreparable.

To change carbon brushes proceed as follows:

1. Unplug the unit.
2. Unscrew both ends of carbon brushes.
3. Replace the brushes.
4. Re-threading the tops of the brushes



## 11. SETTING AND USE.

CAUTION: Do not put up the electric mixer if it not submerged in the liquid mixture or mixing. If you enter the mixer paddle in action it can splash the mix product.

To start the electric mixer proceed as follows:

1. Mount the mixer paddle at the motor shaft
2. Connect the machine to the network
3. Select the lowest gear ratio possible to gain control
4. Enter the mixer paddle in the mixing container where the mix is.
5. Press the unlock switch button stop / start.
6. Press the switch stop / start.
7. Increase the speed with speed driver if required.

### Mixing materials

The choice of mixer paddle depends on the viscosity of the mixture. Substances with a low viscosity, such as paint, varnish, cement, cement glue sealing require a mixing paddle with a left turn. Substances with a high viscosity, such as ready-mixed plaster, concrete, cement, metal, putty and epoxy resin, a mixing paddle will require a right turn.

While the liquid is mixing, it is important to keep the mixer paddle in the mix. The machine should move up and down motion to ensure that all materials are properly mixed. Never expose the tip of the blade above the liquid.

After finishing the mixture has to wait until the blade stops spinning completely before removing from the mixture. The mixing paddle should be cleaned immediately after use to avoid adhering to dry and remain disabling the mixing paddle.

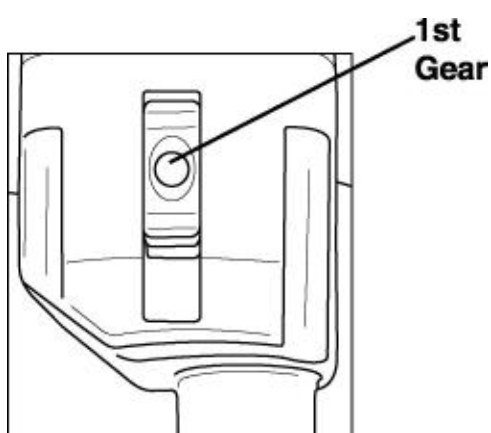
**CAUTION:** When you start the mixer paddle rotation is advisable to keep the rotation of the mixing blade at a rate too low to allow good control over the mix.

**CAUTION:** If mixture is too thick will select a short speed to be enable mixing.

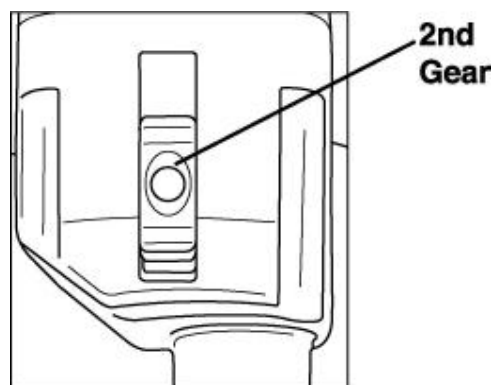
**CAUTION:** The speed control features six speed settings from 1 to 6, 1 is the slowest and 6 the fastest. The variable rate must be increased slowly to give the user more control over the paddle for mixing

#### Speed gear selection.

The speed of rotation of the mixing paddle can be modified to suit the diameter of the head of the mixing paddle.



1<sup>st</sup> Speed Gear. Lower speed gear. Use mixer paddles till Ø 200 mm.



2<sup>nd</sup> Speed Gear. Faster speed gear. Use mixer paddles till Ø 140 mm.

## 12. TECHNICAL CHARACTERISTICS

<b>MODEL</b>	<b>MIX PRO-1600</b>
<b>VOLTAGE</b>	220/230V ~ 50Hz
<b>ENGINE POWER</b>	1600w
<b>1º SPEED GEAR RPM</b>	150/400 rpm
<b>2º SPEED GEAR RPM</b>	250/700 rpm
<b>MIXING VOLUME</b>	200 Litres
<b>MIXER PADDLE SIZE</b>	160mm
<b>WEIGHT</b>	6,2 Kg

### 13. WARRANTY

SIMA, S.A. the manufacturer of light machinery for construction possesses a net of technical services "SERVI-SIMA".

Repairs under warranty made by SERVÍ-SIMA are subject to some strict condition to guaranty a high quality and service.

SIMA S. A. guarantees all its products against any manufacturing defect; to take into account the conditions stated in the attached document "WARRANTY CONDITIONS". The latter would cease in case of failure to comply with the established payment terms. SIMA S.A. reserves its right to bring modifications and changes to its products without prior notice.

### 14. SPARE PARTS

The spare parts for the cutting table, model ELECTRIC MIXER MIX-PRO 1600, manufactured by SIMA, S.A. are to be found in the spare parts plan, attached to this manual.

To order any spare part, please contact our alter-sales service clearly indicating the serial number of the machine, **model, manufacturing number and year of manufacturing that show on the characteristics plate.**

### 15. ENVIRONMENT PROTECTION

Raw materials have to be collected instead of throwing away residuals. Instruments, accessories, fluids and packages have to be sent into specific places for ecological reutilisation. Plastic components are marked for selective recycling.



**R.A.E.E. Residuals arising of electrical and electronic instruments have to be stored into specific places for selective collection.**

### 16. DECLARATIONS ON NOISES

The sound pressure level in the workplace is:

ELECTRIC MIXER MIX-PRO 1600 MONF.

98 LWA (dBa)

### 17. DECLARATIONS ON MECHANICAL VIBRATIONS

The level of vibrations transmitted to the hand-arm is 2,5m<sup>2</sup>



**WARRANTY CERTIFICATE****AFTER-SALES SERVICE****END USER FORM****MACHINE DETAILS**

NUMBER PLATE
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**CLIENT DETAILS**

NAME

ADDRESS

POSTAL CODE AND CITY

PROVINCE/COUNTRY

TEL.:

Fax:

E-mail

DATE OF PURCHASE

**Signature and stamp of the selling party****Client signature****WARRANTY CONDITIONS**

- 1.) SIMA, S.A. fully guarantees all its products against defects in design, taking responsibility in the repairs or the faulty equipment for a period of ONE year from the original date of purchase. The date of purchase must appear on the warranty voucher enclosed.
- 2.) The warranty covers exclusively labour, repair and substitution of the faulty parts, the model and serial number of which must show on the warranty certificate.
- 3.) Transport, stay and food expenses before arriving to SIMA S.A., will be covered by the client.
- 4.) The warranty does not cover any damage caused by the normal wear, undue usage, overloading, inadequate installation or bad conservation of the machine.
- 5.) All repairs under WARRANTY will solely be effectuated by SIMA, S.A. or by its authorised dealers or repair centres.
- 6.) This Guarantee will be invalid in the following cases:
  - a) Any Warranty certificate manipulation or modification
  - b) Repairs, modifications or substitution of any part of the machine by unauthorized parties by SIMA S.A technical department.
  - c) The non-approved installation of devices by SIMA S.A technical department.
- 7.) SIMA is not responsible for any damages caused by the failure of the product. This includes, but not limited to, annoyances, transport expenses, telephone calls and loss of personal goods or commercial benefits, as well as the loss of pay or salary.
- 8.) Faulty thermal or electrical motors under warranty have to be sent to SIMA S.A or its authorized technical service in the country.
- 9.) To be benefit from the warranty, the warranty certificate must be at SIMA S.A premises within 30 days from the purchasing date. To claim the warranty, the purchase invoice has to be attached stamped by the dealer including the serial number of the machine.



SOCIEDAD INDUSTRIAL DE MAQUINARIA ANDALUZA, S.A.

POL. IND. JUNCARIL, C/ALBUÑOL, PARC. 250

18220 ALBOLOTE (GRANADA)

Tel.: 34 - 958-49 04 10 – Fax: 34 - 958-46 66 45

MANUFACTURER OF LIGHT MACHINERY FOR CONSTRUCTION

SPAIN



**WARRANTY CERTIFICATE****AFTER-SALES SERVICE****FORM TO RETURN TO MANUFACTURER****DATOS MÁQUINA**

NUMBER PLATE
--------------

**DATOS COMPRADOR**

NAME

ADDRESS

POSTAL CODE AND CITY

PROVINCE/COUNTRY

TEL.:

Fax:

E-mail:

DATE OF PURCHASE

**Signature and stamp of the selling party****Client signature****WARRANTY CONDITIONS**

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